

**DEPARTMENT OF TRANSPORTATION****DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-002445**Date Inspected:** 02-Jul-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**Quality Control Contact:** Mr. Don Walton**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coating Inspection**Bridge No:** 34-0006**Component:** See Below**Bid Item:** 77, 78, 79**Lot No:** B #204**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE II coating inspector, Mr. Baskar Govindarajan arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE II coating inspector observed the following:

1. An inspection was requested on the OBG Cross beam (9BE) bottom plate external support areas reblasting, vide request no. 3530 at Painting shop 1. This Caltrans inspector observed, ABF inspectors Mr. Sun , and Mr. David performing said inspection check . It was observed that, these surfaces were accepted by ABF Inspectors . The surface profile found to be in the range of 80 to 82 microns. The ambient conditions were monitored and is 5. 1 deg. above dew point and the relative humidity found to be 76.8% which is acceptable as per contract documents. International protective coatings technical service representative Mr. Lou Qian Chuan was found present during the course of this inspection process. (Photograph showing surface profile measured by Coarse grain method and ambient conditions during this inspection is attached)
2. An inspection was requested for the OBG External west side corner unit areas for surface preparation check before finish coat application offered, vide notification no. 3532 at OBG assembly yard . This Caltrans inspector observed, ABF inspectors Mr. Sun, and Mr.Vince performing said inspection check .The same was found accepted by ABF Inspectors after minor Grinding and cleaning in some of the marked places. The surface temperature measured and found to be within the range mentioned in contract documents which is 38 deg. celcius. Photograph showing surface temp. of 32 deg. is attached. International protective coatings technical service representative Mr. Lou Qian Chuan was found present during the course of this inspection process.

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3. An inspection was requested for the OBG internal longitudinal diaphragm damaged areas reblasting L7E, vide inspection request no. 3535. This Caltrans inspector observed, ABF inspector Mr. Sun, Mr. Vince and Mr. David performed the Blasting inspection and accepted the same except areas between PP57 to PP57 as the surface temperature in these areas found to be more than 38 deg. celcius which is not acceptable as per contract documents.

The surface profile found to be in the range of 78 to 80 microns. International protective coating representative Mr. Lou Qian Chuan was found present during the inspection process.

4. An inspection was requested for the OBG External bottom plate L8E at Blasting shop 4, vide notification no. 3539 . This Caltrans inspector observed, ABF inspectors Mr. Sun, Mr. Shi stone and Mr. Vince performing said inspection check .The same was found accepted by ABF Inspectors after minor Grinding and cleaning in some of the marked places. International protective coatings technical service representative Mr. Lou Qian Chuan was found present during the course of this inspection process.

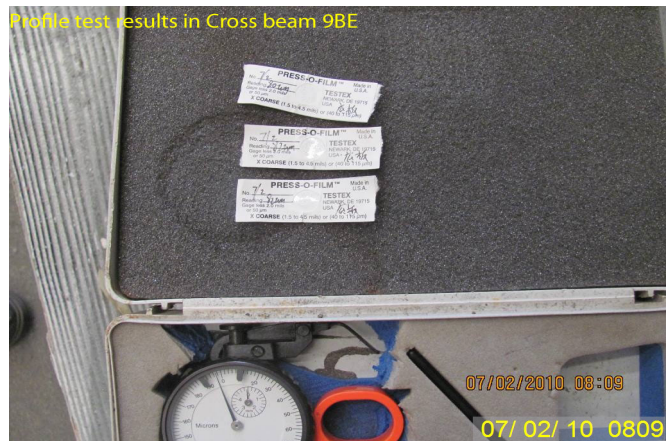
5. An inspection was requested for the OBG Counter weight CW48, CW50, CW54 -3 nos for Surface preparation inspection and residual chlorides test, at Blasting shop 2, vide notification no. 3537 . This Caltrans inspector observed, ABF inspectors Mr. David performing said inspection check .The same was found accepted by ABF Inspector after minor Grinding of the marked places. Mr. Tim McLendon have been informed for preblasting inspection of these counter weights and this preblasting inspection was attended by him and Mr. Sugunthan. International protective coatings technical service representative Mr. Lou Qian Chuan was found present during the course of this inspection process

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

Surface temp. on L7E - OBG external west side



Profile test results in Cross beam 9BE



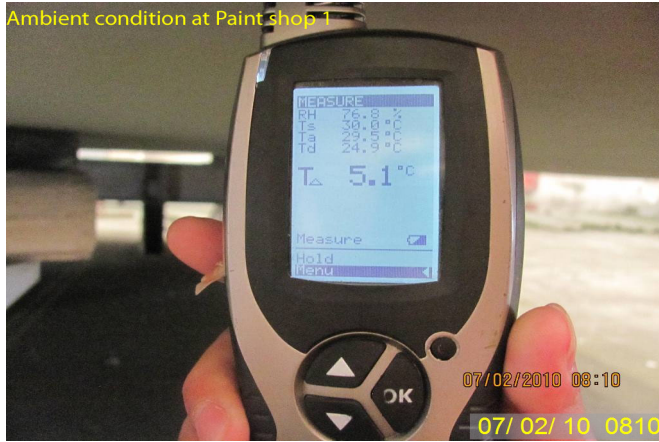
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Ambient condition at Paint shop 1



### Summary of Conversations:

No applicable Conversations

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Micheal Ng (15921845703), who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Baskar, Govindarajan	Quality Assurance Inspector
<b>Reviewed By:</b>	Clifford, William	QA Reviewer

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